

AMENDMENTS TO THE CLAIMS:

1. – 19. **(Canceled)**

20. **(Previously Presented)** A method for identifying a ligand for a G protein-coupled receptor (GPCR), the method comprising:

contacting a plurality of G protein-coupled receptors (GPCRs) with a candidate agent, the GPCRs having a conformationally sensitive detectable probe positioned on or within a conformationally sensitive third intracellular domain, wherein the GPCRs are provided on an array at assigned coordinates; and

detecting a detectable signal of the conformationally sensitive detectable probe;

wherein detection of a change in the detectable signal at a coordinate on the array in the presence of the candidate agent as compared to the absence of the candidate agent indicates the candidate agent is a ligand for the GPCR at the coordinate on the array.

21. **(Previously Presented)** The method of claim 20, wherein the detectable probe is a fluorescent probe.

22. **(Previously Presented)** The method of claim 20, wherein the GPCR is immobilized by attachment to a support.

23. **(Previously Presented)** The method of claim 20, wherein the GPCR is in a membrane.

24. **(Previously Presented)** The method of claim 20, wherein the detectable probe is a protease cleavage site.